PATENT Docket No.: 50212-230

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application of

Yuichi WADA, et al.

Serial No.: 09/830,611

Group Art Unit: 1762

Filed: April 30, 2001

Examiner: not yet assigned

FILM DEPOSITION METHOD AND APPARATUS For:

RESEPTORON TO 1700

SUBMISSION

Commissioner for Patents Washington, DC 20231

Sir:

Submitted herewith is a copy of the English Translation of the International Preliminary Examination Report in the Initial Application.

Respectfully submitted,

MCDERMOTT, WILL & EMERY

Registration No. 26,106

600 13th Street, N.W. Washington, DC 20005-3096 (202) 756-8000 AJS:igh Date: September 7, 2001

Facsimile: (202) 756-8087

PCT

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

HASEGAWA, Yoshiki Soei Patent and Law Firm Okura-Honkan 6-12, Ginza 2-chome Chuo-ku Tokyo 104-0061 **JAPON**

Date of mailing (day/month/year) 01 June 2001 (01.06.01) Applicant's or agent's file reference IMPORTANT NOTIFICATION TMW 99-18 PCT

International application No. PCT/JP99/06032

International filing date (day/month/year) 29 October 1999 (29.10.99)

Applicant

WADA, Yuichi et al.

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request;

None

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Telephone No. (41-22) 338.83.38

Eliott Peretti

Facsimile No. (41-22) 740.14.35





PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TMW 99-18 PCT	FOR FURTHER ACTION	ACTION SeeNotificationofTransmittalofInternational Prelimin Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/month/year)		Priority date (day/month/year)				
PCT/JP99/06032	29 October 1999 (29	.10.99)	29 October 1998 (29.10.98)				
International Parent Classification (IPC) or national classification and IPC H01L 21/288, C23C 18/02							
Applicant	Applicant WADA, Yuichi						
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	4 sheets, including	ng this cover s	sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of sheets.							
3. This report contains indications related	ting to the following items:						
I Basis of the report	Basis of the report						
II Priority	Priority						
III Non-establishment o	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of inve	Lack of unity of invention						
V Reasoned statement citations and explana	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents o	VI Certain documents cited						
VII Certain defects in the international application							
VIII Certain observations on the international application							
Date of submission of the demand		f completion o	of this report				
24 March 2000 (24.03	.00)	31 Ja	anuary 2001 (31.01.2001)				
Name and mailing address of the IPEA/JP	Author	Authorized officer					
Facsimile No.	Teleph	Telephone No.					



International application No.

PCT/JP99/06032

[, Basis of the report									
1.	1. With regard to the elements of the international application:*								
		the international application as originally filed							
	\boxtimes	the desc	cription:						
		pages	1-17	, as originally filed					
		pages		, filed with the demand					
		pages	filed with the letter of						
	∇	the clai							
		pages	6	, as originally filed					
		pages	, as amended (together with	any statement under Article 19					
		pages		. Tited with the deniand					
		pages	1,7-8,10 , filed with the letter of 04 S	eptember 2000 (04.09.2000)					
	N	the drav	wings:						
		pages	1-13	, as originally filed					
		pages		, filed with the demand					
		pages	, filed with the letter of						
	\Box		ence listing part of the description:						
	Ш,	•	ence listing part of the description.	, as originally filed					
		pages pages		, filed with the demand					
		pages	, filed with the letter of						
	 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language								
5	in th and	This re beyond accement is report 70.17).	the description, pages the claims, Nos2-5.9 the drawings, sheets/fig poor has been established as if (some of) the amendments had not been made, since the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** sheets which have been furnished to the receiving Office in response to an invitation was "originally filed" and are not annexed to this report since they do not con	inder Article 14 are referred to tain amendments (Rule 70.16					
١.	** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.								



International application No.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1. Statement								
Novelty (N)	Claims	1,6-8,10	YES					
	Claims		NO					
Inventive step (IS)	Claims	1,6-8,10	YES					
	Claims		NO					
Industrial applicability (IA)	Claims	1,6-8,10	YES					
	Claims		NO					

2. Citations and explanations

(1) Documents

Documents 1-5 cited in the ISR are as follows:

Document 1: JP, 4-53132, A (Toshiba Corp.), 20 February, 1992 (20.02.92), the claims, Examples 1 and 6 (Family: none)

Document 2: JP, 9-45773, A (NEC Corp.), 14 February, 1997 (14.02.97), the claims, examples, page 4, paragraph 0034 (Family: none)

Document 3: JP, 9-302471, A (Anelva Corp.), 25 November, 1997 (25.11.97), column 2, lines 20-27 (Family: none)

Document 4: JP, 62-120475, A (Nichiden Anelva K.K.), 1 June, 1987 (01.06.87), the claims, drawings (Family: none)

Document 5: JP, 7-267621, A (Showa Denko K.K.), 17 October, 1995 (17.10.95), the claims, drawings (Family: none)

Document 1 describes a method of forming copper by coating with an organic metal containing copper, and heating.

Document 2 describes a method of forming, for example, aluminum and copper by coating with an organic metal containing, for example, aluminum and copper, and heating.

Document 3 describes Cu (hfac) (tmvs) as a liquid organic metal containing copper.

Documents 4 and 5 describe an apparatus having a film forming means and a heating means, in which both the means are connected through a carrying means.

(2) Explanation

Documents 1-5 disclose means of coating with an organic metal-containing liquid containing copper and thermally decomposing to form a film. However, the present application has a constituent feature that an organic metal-containing liquid mainly composed of (hfac) Cu⁺¹ (tmvs) and (hfac) Cu⁺¹ (teovs) is thermally decomposed to form a film at a predetermined pressure higher than the atmospheric pressure to inhibit the natural evaporation of the organic metal-containing liquid. This constituent feature is neither disclosed in any of documents 1-5, nor obvious to a person skilled in the art.

2001年 8月29日 11時03分



international application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT PCT/JP99/06032 VI. Certain documents cited 1. Certain published documents (Rule 70.10) Priority date (valid claim) Filing date Application No. Publication date (day/month/year) (day/month/year) (day/month/year) Patent No. 06 January 1999 (06.01.1999) 04 December 1997 (04.12.1997) 04 August 1997 (04.08.1997) JP,11-1778,A (K.K. Tori Chemical Kenkyusho) PY 2. Non-written disclosures (Rule 70.9) Date of written disclosure referring to non-written disclosure Date of non-written disclosure Kind of non-written disclosure (day/month/year) (day/month/year)